

SWP Weekly Water Quality Summary

January 27 to February 3, 2010

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP) and Barker Slough, but decreased at Check 41, Devil Canyon and Vallecitos. The concentrations ranged from 140 $\mu\text{S}/\text{cm}$ to 646 $\mu\text{S}/\text{cm}$ (84 mg/L to 388 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). As of February 3, 2010, the lowest concentration of 239 $\mu\text{S}/\text{cm}$ occurred at Barker Slough while the highest concentration of 577 $\mu\text{S}/\text{cm}$ occurred at Vallecitos. The average daily EC concentration at HBP was 502 $\mu\text{S}/\text{cm}$ as of February 3, 2010.

Bromide*: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations except Barker Slough. Concentrations ranged from 0.03 mg/L to 0.36 mg/L. As of February 3, Check 41 had the lowest concentration of 0.08 mg/L, while the highest concentration of 0.30 mg/L occurred at Vallecitos. The average daily bromide concentration at HBP was 0.27 mg/L as of February 3, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From January 27 to February 3, 2010, turbidity levels increased at HBP and Barker Slough, but decreased at Devil Canyon and were unchanged at Check 41. Turbidity levels ranged from 3.0 NTU to 104 NTU during the week. As of February 3, 2010, the lowest level of 3.0 NTU occurred at Check 41, while the highest level of 104 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 7.1 NTU to 11.1 NTU, as of February 3, 2010.

Dissolved Organic Carbon (DOC): Concentrations decreased from 7.6 mg/L to 5.7 mg/L at HBP, from 2.2 mg/L to 2.1 mg/L at Edmonston, but increased from 3.4 mg/L to 5.2 mg/L at Check 13 as of February 3, 2010.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from non-detect to 6 ng/L at Clifton Court Inlet, HBP, Del Valle Check 7, O'Neill Forebay outlet, Pacheco Pumping Plant, Check 41, Lake Perris and Silverwood Lake as of January 25 and 26, 2010.

Ground water pump-ins to the California Aqueduct from January 27 to February 3, 2010 totaled 18,459 AF. The break down of the total volume was:

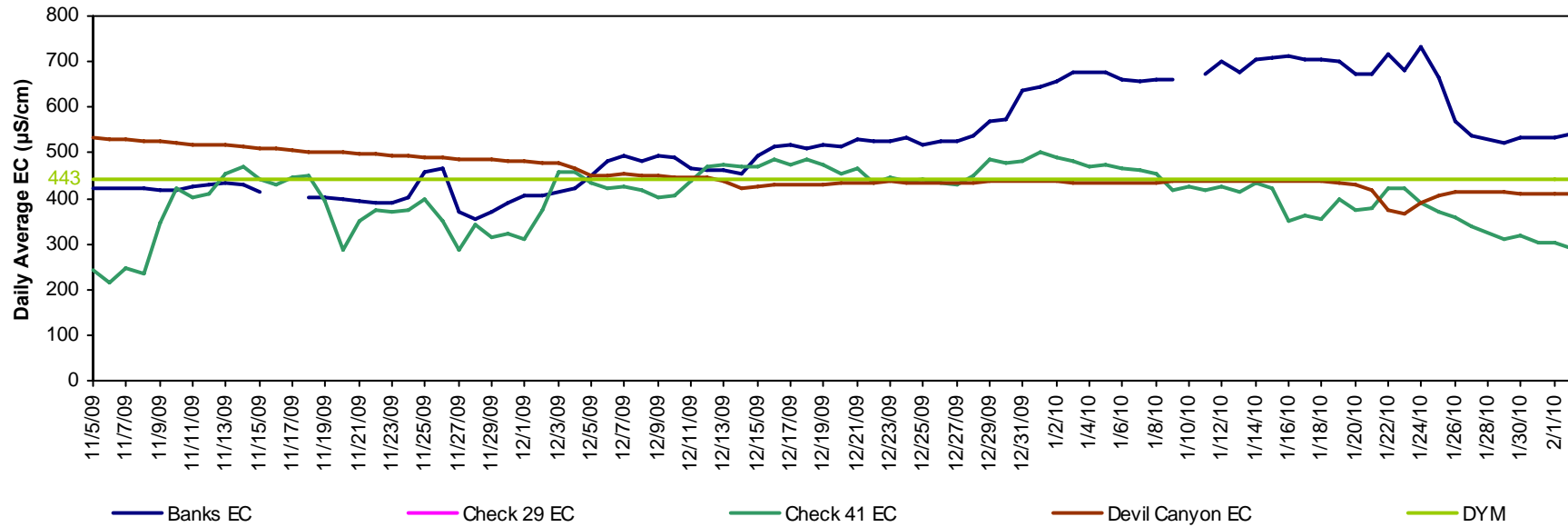
- Arvin Edison Water Storage District = 4,149 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 5,669 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 8,553 AF
- Semitropic (2&3) Water Storage District = 88 AF

As of January 20, 2010, no data were available for Check 29 due to a malfunctioning turbidity instrument and the water quality station upgrades currently underway.

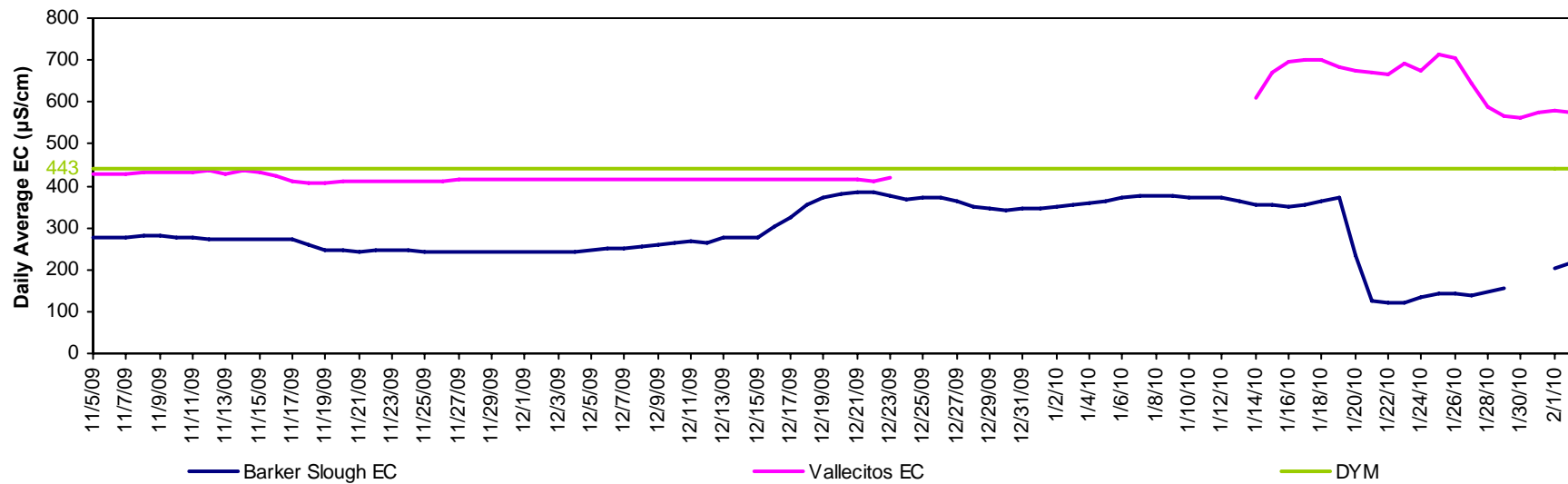
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

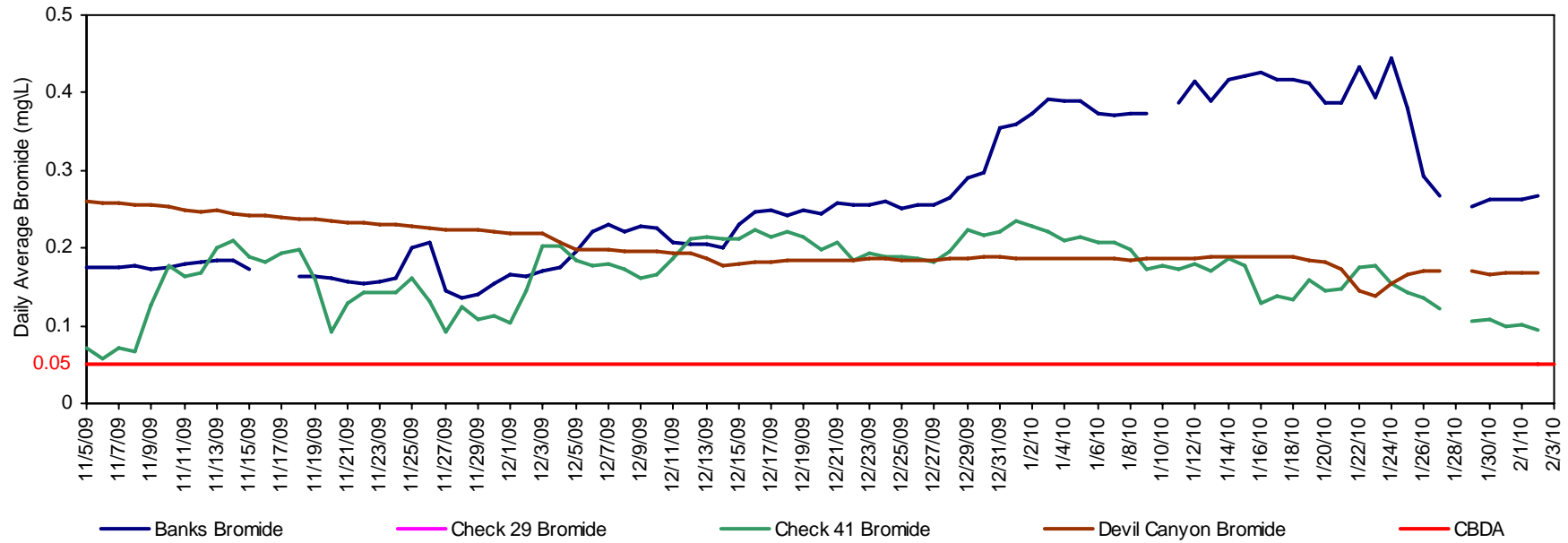
California Aqueduct - Electrical Conductivity



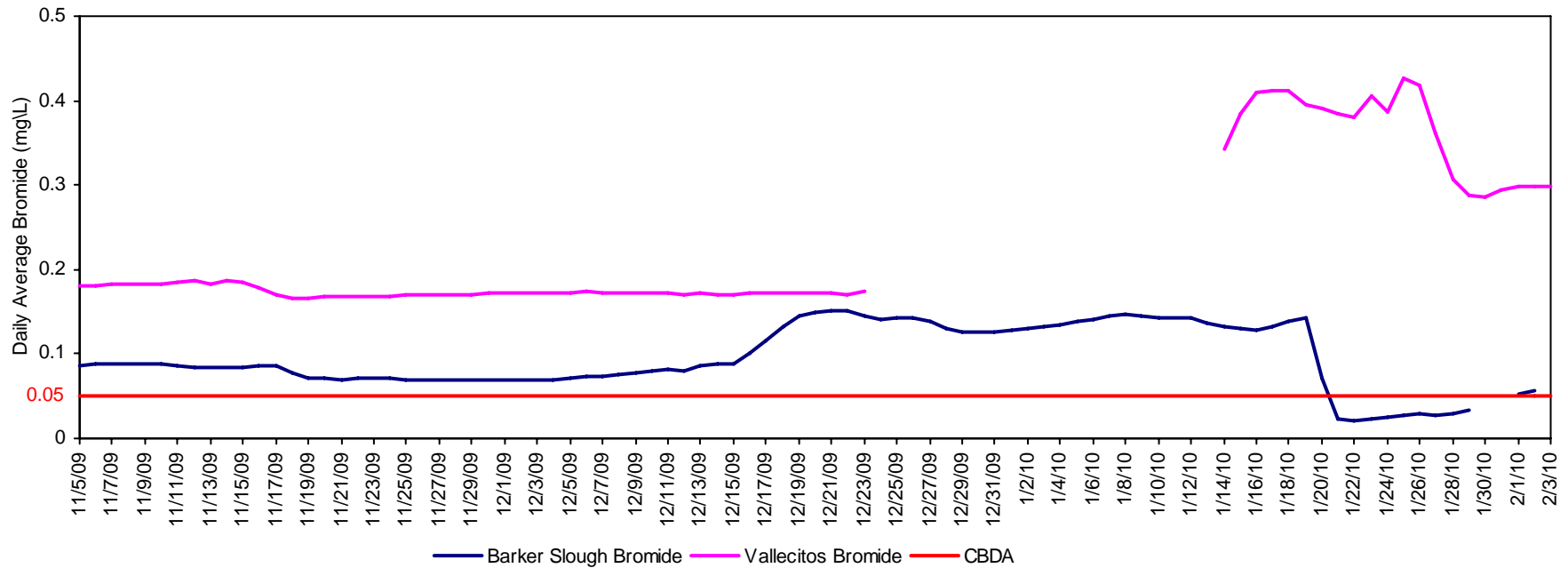
North and South Bay Aqueduct - Electrical Conductivity



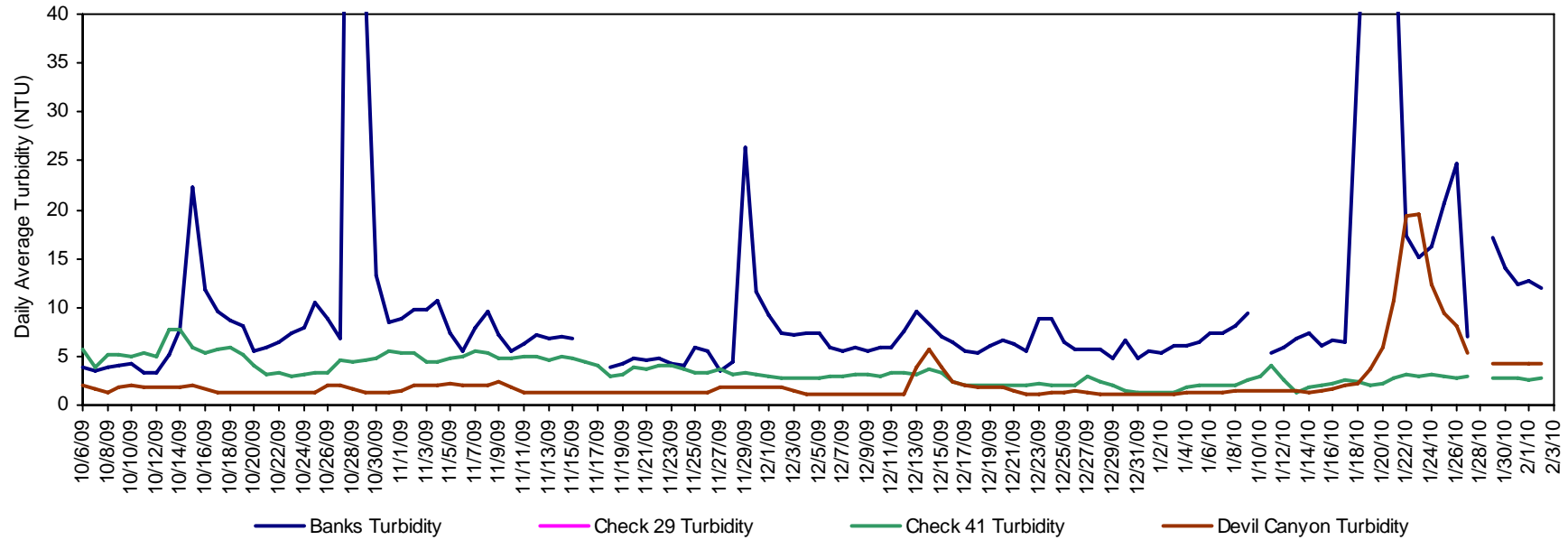
California Aqueduct - Calculated Bromide



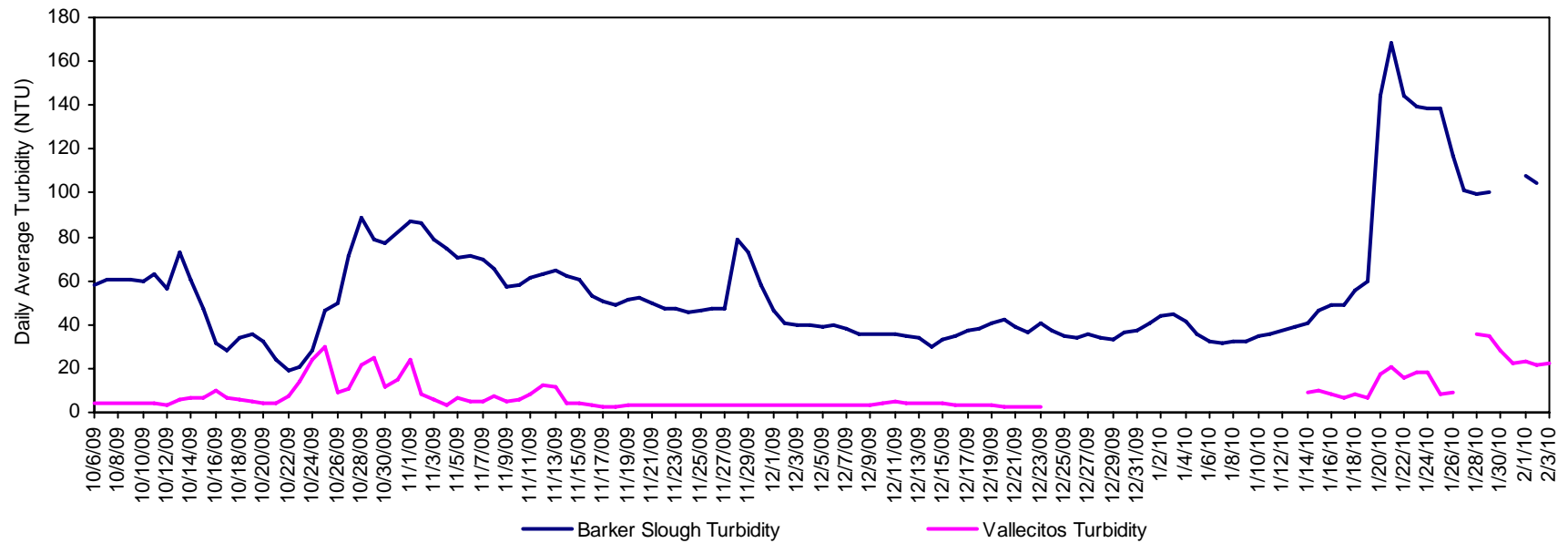
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

